

IN THE CLAIMS

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1 and 10 and ADD new claim 24 in accordance with the following:

1. (Currently Amended) A transmission screen comprising:

~~a Fresnel lens sheet through which light is projected from a projector~~ as substantially parallel light; and

~~[[the]]~~a lenticular lens sheet receiving which receives the substantially parallel light as approximately parallel light, passing through the Fresnel lens sheet, and emitting which horizontally widens and emits the approximately substantially parallel light while horizontally widening, by means of a group of cylindrical lenses which are horizontally in parallel; ; and

a light diffusing substrate which is disposed on at least one of the Fresnel lens sheet or the lenticular lens sheet, said light diffusing substrate being separate from the Fresnel lens sheet and the lenticular lens sheet,

~~wherein in at least one of the Fresnel lens sheet and the lenticular lens sheet, on a surface of a light diffusing substrate, in which a light diffusing material~~ the light diffusing substrate comprises at least two diffusing layers in which a light diffusing material is dispersed, ~~irregularities which constitute a lens section are formed, and~~

~~in the light diffusing substrate, and each diffusing layer differs in a dispersion density of the light diffusing material~~ differs in at least two layers in the thickness direction.

2. (Original) A transmission screen according to claim 1, wherein the light diffusing substrate is spread formed with ink containing the light diffusing material on at least one surface of a resin sheet extrusion formed with the light diffusing material mixed therein.

3. (Original) A transmission screen according to claim 1, wherein the light diffusing substrate has laminated on the surface of the resin sheet extrusion formed with the light diffusing material mixed therein, another resin sheet extrusion formed with a different density of the light diffusing material mixed therein.

4. (Original) A transmission screen according to claim 1, wherein on one surface of a transparent resin substrate which does not contain the light diffusing material, at least two layers of resin layers containing the light diffusing material is laminated.

5. (Original) A transmission screen according to claim 1, wherein the dispersion density of the light diffusing material is higher on the side of the projector than on the viewer side.

6. (Original) A transmission screen according to claim 1, wherein in a multilayer configuration of the at least two layers, the light diffusing material dispersed on the side of the projector is mainly composed of an inorganic material, and the light diffusing material dispersed on the viewer side is mainly composed of an organic material.

7. (Original) A transmission screen according to claim 1, wherein the light diffusing material dispersed on the Fresnel lens sheet side is an organic material; and the light diffusing material dispersed on the lenticular lens sheet side is an inorganic material.

8. (Original) A transmission screen according to claim 1, wherein the surface on the viewer side of the light diffusing substrate, is performed to at least one surface treatment selected from hard coat treatment, antistatic treatment, and antireflection treatment.

9. (Original) A transmission screen according to claim 1, wherein the surface on the viewer side of the resin sheet extrusion formed with the light diffusing material mixed therein, is performed to at least one surface treatment selected from hard coat treatment, antistatic treatment, and antireflection treatment.

10. (Currently Amended) A transmission screen comprising:

a Fresnel lens sheet through which light is projected from a projector; and

[[the]] a lenticular lens sheet receiving light as approximately parallel light, passing through the Fresnel lens sheet, and emitting the approximately parallel light while horizontally widening, by means of a group of cylindrical lenses which are horizontally in parallel,

wherein in the Fresnel lens sheet on one surface of a light diffusing substrate, in which a light diffusing material is dispersed, irregularities which constitute a lens section including a reacted product of a radioactive-ray-curable-resin is formed, and on the other surface, irregularities which constitute a lens section which light is vertically widened and projected from

the projector is formed, by means of a group of the cylindrical lenses which are vertically in parallel, and

in the lenticular lens sheet, on one surface of a substrate on the Fresnel lens sheet side, the group of cylindrical lenses which are horizontally in parallel is formed by a reacted product of a radioactive-ray-curable-resin, and on the other surface, at a position corresponding to the boundaries of the cylindrical lenses, a stripe-shaped shading layer is formed, and

a light diffusing substrate made by laminating at least two layers of resin layers containing the light diffusing material on one surface of a transparent resin substrate which does not contain the light diffusing material, is laminated so that the side which does not contain the light diffusing material faces to the shading layer side, and

in the resin layer, a dispersion density of the light diffusing material differs in at least two layers in the thickness direction.

11. (Withdrawn) A transmission screen comprising:

a Fresnel lens sheet through which light is projected from a projector; and

the lenticular lens sheet receiving light as approximately parallel light, passing through the Fresnel lens sheet, and emitting the approximately parallel light while horizontally widening, by means of a group of cylindrical lenses which are horizontally in parallel,

wherein the lenticular lens sheet is formed with irregularities which constitute a lens section on the surface of a light diffusing substrate having a light diffusing layer,

the light diffusing substrate is mainly composed of an organic material,

the light diffusing layer contains at least two kinds of light diffusing material which differ at least in any one of shape, mean particle diameter, and material, and

at least one kind of light diffusing material of the light diffusing materials comprises an inorganic material.

12. (Withdrawn) A transmission screen according to claim 11, wherein in the case where the shapes of at least two kinds of light diffusing material contained in the light diffusing layer are globular, the light diffusing layer contains a first light diffusing material with a mean particle diameter satisfying a range of 1 to 10 μm and a second light diffusing material with a mean particle diameter satisfying a range of 20 to 50 μm .

13. (Withdrawn) A transmission screen according to claim 11, wherein in the case where at least one kind of light diffusing material contained in the light diffusing layer comprises an

organic material, the mean particle diameter of the organic light diffusing material is larger than the mean particle diameter of an inorganic diffusing agent where the light diffusing material comprises an inorganic material.

14. (Withdrawn) A transmission screen according to claim 11, wherein the at least two kinds of light diffusing material which differ at least in any one of shape, mean particle diameter, and material, contained in the light diffusing layer, further contain an inorganic light diffusing material of irregular shape.

15. (Original) A transmission screen according to any one of claim 1, 10 and 11, wherein a refractive index of a resin constituting the light diffusing substrate is higher than a refractive index of the light diffusing material.

16. (Original) A transmission screen according to claim 15, wherein a refractive index ratio of the resin and the light diffusing material is in a range of resin : light diffusing material = 1 : 0.7 to 1.

17. (Original) A transmission screen according to claim 15, wherein a refractive index difference of the resin and the light diffusing material is in a range of 0 to 0.2.

18. (Original) A transmission screen according to claim 15, wherein a thickness of the light diffusing layer is in a range of 1 to 60 μm .

19. (Original) A transmission screen according to claim 15, wherein a dosage of the light diffusing material is in a range of 5 to 40 parts by weight for 100 parts by weight of the light diffusing layer.

20. (Original) A transmission screen according to claim 15, wherein a mean particle diameter of the light diffusing material is in a range of 1 to 30 μm , and a standard deviation of the mean particle diameter according to a laser diffraction scattering method is less than 6 μm .

21. (Withdrawn) A display device of a type which forms a display light by projecting an illumination light onto image display elements in which a display image is regulated by transmission/non transmission (or, transmission /light diffusion) or selective reflection,

equipped with a transmission screen according to any one of claim 1, 10 and 11, either alone or in combination with another lens sheet.

22. (Withdrawn) A light diffusing substrate comprising a light diffusing layer made by dispersing and mixing a light diffusing material into a resin,

wherein in the light diffusing layer, a dispersion density of the light diffusing material differs in at least two layers in the thickness direction.

23. (Withdrawn) A light diffusing substrate comprising a light diffusing layer made by dispersing and mixing a light diffusing material into a resin,

wherein the light diffusing substrate is mainly composed of an organic material, the light diffusing layer contains at least two kinds of light diffusing material which differ at least in any one of shape, mean particle diameter, and material, and at least one kind of light diffusing material of the light diffusing materials comprises an inorganic material.

24. (New) A transmission screen according to claim 1, wherein the Fresnel lens sheet or the lenticular sheet, which is not provided with the light diffusing substrate, comprises a light diffusing layer.